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APPENDIX

STATISTICS ON TRADE UNIONS, 1910

I. — MEMBERSHIP OF TRADE UNIONS

II. — EXTENT OF ORGANIZATION

III. — ORGANIZATION IN SELECTED OCCUPATIONS

TABLE I

**MEMBERSHIP OF AMERICAN NATIONAL AND INTERNATIONAL TRADE UNIONS
IN THE UNITED STATES AND CANADA; CLASSIFIED BY SEX, 1910**

(Unless otherwise specified, the data in this table were obtained either from the proceedings or officers' reports or by correspondence with the central office of the union)

Name of Union	Total Member- ship	Male	Female	Member- ship in U.S. ¹
Actors	1,100 ¹	1,100	....	1,100
Asbestos Work	500 ¹	500	....	500
Bakery Work	19,004	19,004	....	18,830
Barbers	27,201	27,201	....	26,310
Billposters	1,400 ¹	1,400	....	1,310
Blacksmiths	10,000 ¹	10,000	....	9,000
Boilermakers	16,092	16,092	....	15,051
Bookbinders	7,184	3,413	3,771	6,956
Boot and Shoe Work	32,500 ¹	27,000	5,500	30,727
Boot and Shoe Cutters	2,200	2,200	....	2,200
Box Makers	10,000	9,600	400	10,000
Brewery Work	45,497	44,947	550	44,392
Bricklayers	72,000	72,000	....	65,311
Brick Work	3,800 ¹	3,800	....	3,800
Bridge Work	10,872	10,872	....	9,998
Broom Makers	600 ¹	600	....	600
Brush Makers	200 ¹	200	....	200
Building Laborers	6,444 ²	6,444	....	6,444
Butcher Work	1,975	1,975	....	1,975
Cap Makers	1,846	1,646	200	1,750
Carpenters, Am.	4,950	4,950	....	4,950
Carpenters, Utd.	200,712	200,712	....	195,499
Carriage Work	1,100 ¹	1,100	....	1,100
Car Work	5,000 ¹	5,000	....	5,000
Cement Work	9,000 ¹	9,000	....	8,975
Cigarmakers	43,837	39,837	4,000	41,852
Commercial Telegraphers	1,000 ¹	1,000	....	1,000
Composition Roofers	1,190	1,190	....	1,190
Compressed Air Work	600 ¹	600	....	600
Coopers	4,375	4,375	....	4,346
Cuttermakers	300 ¹	300	....	300
Diamond Work	310	310	....	310
Electrical Work (affiliated)	16,000 ¹	16,000	....	15,990
Electrical Work	22,000	22,000	....	20,102
Elevator Constructors	2,100 ¹	2,100	....	2,067
Engineers	3,860	3,860	....	3,108
Flint Glass Work	8,901	8,901	....	8,729
Flour Mill Employ.	300 ¹	300	....	300
Foundry Employ.	700 ¹	700	....	700

¹ Proceedings of the American Federation of Labor, 1910, p. 67.

² New York Labor Bulletin, No. 45, 1910, p. 405.

³ The data in this column were obtained by subtracting from the total membership of each organization its Canadian membership. The Canadian membership of American trade unions is contained in the "Report on Labour Organization in Canada," Department of Labor, 1911, p. 90. As there was no Canadian report previous to 1911, the Canadian membership in 1911 was used for 1910, except where the Canadian membership in 1910 was obtained directly from the union.

Name of Union	Total Membership	Male	Female	Membership in U.S.
Fur Work.....	200 ¹	200	....	200
Garment Work.....	54,200	34,200	20,000	52,665
Glass Bottle Blowers.....	10,000 ¹	10,000	....	9,685
Glass Work.....	1,515	1,515	....	1,405
Glove Work.....	800	435	365	800
Government Employ.....	11,000	11,000	....	11,000
Granite Cutters.....	13,400 ¹	13,400	....	13,113
Grinders.....	300 ¹	300	....	300
Hatters.....	10,384	10,384	....	10,334
Hod Carriers.....	11,375	11,375	....	10,848
Horseshoers.....	7,200 ¹	7,200	....	7,150
Hotel Employ.....	37,000	34,985	2,015	35,864
I.W.W. (Chicago).....	9,137	7,137	2,000	9,137
I.W.W. (Detroit).....	3,475	3,130	345	3,475
Iron, Steel, and Tin Work.....	8,257	8,257	....	8,257
Jewelry Work.....	400 ¹	400	....	400
Knights of Labor ².....	....	....	....	....
Lace Operatives.....	800 ¹	800	....	800
Ladies' Garment Work.....	25,999	14,877	11,122	25,999
Laundry Work.....	2,900 ¹	900	2,000	2,860
Leather Work.....	800 ¹	800	....	800
Leather Work. on Horse Goods.....	3,700 ¹	3,700	....	3,620
Letter Carriers.....	26,034	26,034	....	26,034
Lithographers.....	1,906	1,906	....	1,780
Lithographic Press Feeders.....	900 ¹	900	....	900
Lithographic Work.....	350	350	....	350
Locomotive Engineers.....	60,673	60,673	....	56,781
Locomotive Firemen.....	69,267	69,267	....	64,155
Longshoremen.....	20,800 ¹	20,800	....	19,600
Loom Fixers.....	940	940	....	940
Machine Printers and Color Mixers.....	500 ¹	500	....	500
Machine Textile Printers.....	374	374	....	374
Machinists.....	56,900 ¹	56,900	....	51,900
Maintenance of Way Employ.....	8,700 ¹	8,700	....	8,700
Marble Work.....	2,708 ³	2,708	....	2,458
Marine Engineers.....	9,900	9,900	....	9,900
Masters, Mates, and Pilots.....	6,000	6,000	....	6,000
Meat Cutters.....	4,500	4,500	....	4,460
Metal Polishers.....	10,000 ¹	10,000	....	9,858
Metal Work.....	1,260	1,260	....	1,260
Mine Work., Utd.	231,392	231,392	....	226,528
Miners, West. Fed. of.....	37,187	37,187	....	31,991
Molders.....	50,000 ¹	50,000	....	47,050
Musical and Theatrical Un.....	2,000	1,850	150	2,000
Musicians.....	60,000	56,000	4,000	57,740
Painters.....	63,676 ³	63,676	....	61,618
Paper Makers.....	1,600 ¹	1,576	24	1,400

¹ Proceedings of the American Federation of Labor, 1910, p. 67.² Refuses to publish its membership as it is a secret organization.³ Proceedings of the Building Trades Department of the American Federation of Labor, 1911, p. 54.

Name of Union	Total Member- ship	Male	Female	Member- ship in U.S.
Paper Mill Work.....	700 ¹	450	250	700
Pattern Makers.....	5,950	5,950	....	5,450
Pavers.....	1,500 ¹	1,500	....	1,500
Paving Cutters.....	3,200 ¹	3,200	....	3,070
Photo Engravers.....	3,577	3,574	3	3,446
Piano Work.....	3,606	3,606	....	3,606
Plasterers.....	15,200 ¹	15,200	....	13,629
Plumbers.....	25,015	25,015	....	24,015
Post Office Clerks, Nat. Fed. of.....	1,400 ¹	1,330	70	1,400
Post Office Clerks, Utd. Nat. Ass. of	21,000	20,500	500	21,000
Poster Artists.....	340	340	....	340
Potters.....	5,795	5,695	100	5,680
Powder Work.....	238	138	100	238
Print Cutters.....	400 ¹	400	....	400
Printing Pressmen.....	21,420	19,920	1,500	20,620
Quarry Work.....	5,000 ¹	5,000	....	4,900
Railroad Freight Handlers.....	4,700 ¹	4,700	....	3,950
Railroad Signalmen.....	1,162	1,162	....	1,100
Railroad Station Agents.....	600	600	....	600
Railroad Station Employ.....	2,180	2,180	....	2,180
Railroad Telegraphers.....	20,000 ¹	19,040	960	20,000
Railroad Trainmen.....	113,871	113,871	....	106,343
Railway Carmen.....	23,325	23,325	....	20,525
Railway Clerks.....	6,270	6,208	62	6,270
Railway Conductors.....	45,992	45,992	....	43,856
Retail Clerks.....	15,000 ¹	12,900	2,100	15,000
Saw Mill Work.....	600 ¹	600	....	600
Saw Smiths.....	300 ¹	300	....	300
Seamen.....	16,000 ¹	16,000	....	16,000
Sheet Metal Work.....	16,068 ²	16,068	....	15,068
Shingle Weavers.....	1,800 ¹	1,800	....	1,800
Shipwrights.....	900 ¹	900	....	886
Shoe Work, Utd.....	4,636	4,336	300	4,636
Slate Roofers.....	500 ¹	500	....	500
Slate Workers.....	1,400	1,400	....	1,400
Spinners.....	2,776	2,776	....	2,746
Stationary Firemen.....	8,100 ¹	8,100	....	8,100
Steam Engineers.....	17,000	17,000	....	16,650
Steam Fitters.....	5,600 ¹	5,600	....	5,600
Steam Shovelmen.....	1,300	1,300	....	1,300
Steel Plate Printers.....	1,300 ¹	1,300	....	1,262
Steel Plate Transferrers.....	100 ¹	100	....	100
Stereotypers.....	4,000 ¹	4,000	....	3,863
Stonecutters.....	8,548 ²	8,548	....	7,248
Stonecutters, Nat. Soc. of.....	800	800	....	800
Stove Mounters.....	985	985	....	935
Straw Hatters.....	400	400	....	400

¹ Proceedings of the American Federation of Labor, 1910, p. 67.² Proceedings of the Building Trades Department of the American Federation of Labor, 1911, p. 54.

Name of Union	Total Membership	Male	Female	Membership in U.S.
Street Railway Employ	36,700 ¹	36,700	....	33,773
Switchmen	7,500	7,500	....	7,400
Tailors	11,533	10,733	800	10,533
Teamsters	42,000	42,000	....	41,648
Textile Work	13,233	7,278	5,955	13,033
Theatrical Stage Employ	9,566	9,566	....	9,116
Tile Layers	1,808 ²	1,808	....	1,702
Tin Plate Work	800 ¹	800	....	800
Tip Printers	200 ¹	200	....	200
Tobacco Work	4,100 ¹	1,640	2,460	3,940
Travelers' Goods Work	600 ¹	575	25	561
Tunnel Constructors	1,300 ¹	1,300	....	1,300
Typographical Un.	47,848	47,227	621	45,462
Upholsterers	2,800 ¹	2,800	....	2,800
Watch Case Engravers	200 ¹	200	....	200
Weavers, Cloth	5,000	2,500	2,500	5,000
Weavers, Elastic Goring	100 ¹	100	....	100
Weavers, Wire	400 ¹	400	....	400
White Rats	8,000	6,000	2,000	8,000
Window Glass Snappers	1,800 ²	1,800	....	1,800
Window Glass Work	7,000 ²	7,000	....	7,000
Wood Carvers	1,200 ¹	1,200	....	1,170
Wood, Wire Lathers	5,791	5,791	....	5,391
Wood Work	3,200 ¹	3,200	....	3,200
Wool Sorters	1,600 ²	1,600	....	1,600
Total	2,191,892	2,115,144	76,748	2,101,502

¹ Proceedings of the American Federation of Labor, 1910, p. 67.² Proceedings of the Building Trades Department of the American Federation of Labor, 1911, p. 54.³ New York Labor Bulletin, No. 45, 1910, p. 405.

TABLE II

EXTENT OF ORGANIZATION AMONG PERSONS TEN YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED
OCCUPATION IN EACH INDUSTRY OR SERVICE GROUP; CLASSIFIED BY SEX: 1910

Name of Industry or Occupation	Number of Persons in Industry or Occupation		Number of Members of Trade Unions in Industry or Occupation		Distribution of Union Members among Different Organizations		Percentage Organized	
	Total	Male	Total	Male	Name of Organization ¹	Member- ship	Total	Male
MINING.....	834,456	833,871	254,779	254,779	.....	...	30.5	30.6
Coal mines.....	640,581	640,176	226,228	226,228	I.W.W. (Chicago) Utd. Mine Work.	200 226,028	35.3	35.4
Copper, gold and silver, iron, lead and zinc, other specified and not specified mines.....	193,875	193,695	28,551	28,551	West. Fed. of Miners	28,551	14.7	14.7
QUARRYING.....	85,919	85,874	6,309	6,309	A.F. of L., local union Slate Work. Quarry Work.	9 1,400 4,900	7.3	7.3
PRODUCTION OF SALT, OIL AND NATURAL GAS	37,476	37,125	....	....	.....	....	..	..
Salt mines, wells and factories.....	4,299	3,962	....	....	.....	....	..	..
Oil wells and gas wells.....	33,177	33,163	....	....	.....	....	..	..
CHEMICAL AND ALLIED INDUSTRIES.....	73,585	57,953	268	168	.....	....	0.4	0.3
Fertilizer factories.....	10,525	10,422	....	....	.....	....	..	..
Paint factories.....	7,013	6,264	....	....	.....	....	..	..
Powder, cartridge, dynamite, fuse and fireworks factories.....	9,559	6,822	238	138	Powder Work.	238	2.5	2.0
Soap factories and other chemical fac- tories.....	46,488	34,445	30	30	A.F. of L., local unions	30	0.0	0.0
CLAY, GLASS, AND STONE INDUSTRIES.....	309,341	297,284	63,416	63,318	.....	....	20.5	21.3
Brick, tile and terra cotta factories.....	98,547	97,164	3,800	3,800	Brick Work.	3,800	3.8	3.9

Glass factories	83,641	78,695	28,619	28,619	28,619	Flint Glass Work. Glass Bottle Blowers Glass Work. Window Glass Snappers Window Glass Work. Granite Cutters Marble Work. Stone Cutters, Nat. Soc. Stone Cutters Stone Cutters, Soc., N.Y. A.F. of L., local unions Sculptors & Carvers, N.Y. Potters A.F. of L., local unions Garment Work. Tailors Ladies' Garment Work. Cap Makers I.W.W. (Detroit) A.F. of L., local unions	8,729 9,685 1,405 1,800 7,000 13,113 2,458 800 8,356 200 119 171 5,680 100 52,665 10,533 25,999 1,466 300 875	34.2	36.4
Line, cement and gypsum factories	45,226	44,945	....	....	....			..	..
Marble and stone yards	55,558	55,534	25,217	25,217	25,217			..	45.5
Potteries	26,369	21,246	5,780	5,780	5,682			21.9	26.7
CLOTHING INDUSTRIES	608,892	324,749	102,972	102,972	71,163			16.9	21.9
Clothing, shirt, collars and cuff factories ..	538,663	291,883	91,838	91,838	60,394			17.1	20.7
Corset factories	14,002	1,726	....	....	....			..	..
Glove factories	20,307	5,880	800	800	435			3.9	7.4
Hat factories (wool and felt)	35,920	25,260	10,334	10,334	10,334			28.7	40.9
FOOD AND KINDRED PRODUCTS	299,176	252,618	22,744	22,744	22,744			7.6	9.0
Bakeries	105,599	94,028	18,410	18,410	18,410			17.4	19.6
Butter and cheese factories	16,558	15,896	....	....	....			..	..
Candy factories	34,391	15,887	....	....	....			..	..
Fish curing and packing	7,694	6,471	....	....	....			..	..
Flour and grain mills	36,425	36,029	300	300	300			..	..
Fruit and vegetable canning	10,011	5,858	....	....	....			0.8	0.8
Slaughter and packing houses	61,417	57,548	3,859	3,859	3,859			6.3	6.7
Sugar factories and refineries	10,890	10,565	175	175	175			1.7	1.7
Other food factories	16,191	10,336	....	....	....			..	..

1 Unless otherwise indicated the unions given in this column are national or international unions.

Name of Industry or Occupation	Number of Persons in Industry or Occupation		Number of Members of Trade Unions in Industry or Occupation		Distribution of Union Members among Different Organizations		Percentage Organized	
	Total	Male	Total	Male	Name of Organization ¹	Member-ship	Total	Male
IRON AND STEEL INDUSTRIES	1,746,387	1,718,140	173,169	173,169	Molders Metal Polishers Iron, Steel & Tin Work. Carriage Work. Car Work. Railway Carmen Shipwrights Boilermakers Metal Work. Machinists Wire Weavers Blacksmiths Stove Mounters Foundry Employ. Pattern Makers Metal Spinners of N.Y. Cutter Makers I.W.W. (Detroit) I.W.W. (Chicago) A.F. of L., local unions	46,438 6,423 5,600 1,100 5,000 20,525 886 13,051 1,280 51,900 400 9,000 935 700 5,450 140 300 600 300 1,261 ...	9.9	10.1
LEATHER INDUSTRIES	293,035	224,368	42,644	37,121	Lea. Work., Horse Goods	3,620	14.5	16.5
Harness and saddle factories	24,799	24,013	3,620	3,620	Travelers' Goods Work.	561	2.8	3.3
Leather belt, leather case, pocketbook and trunk factories	20,041	16,144	561	538	Utd. Shoe Work.	4,636	19.5	24.4
Shoe factories	193,474	131,709	37,663	32,163	Boot and Shoe Work. Boot and Shoe Cutters Elastic Goring Weavers Leather Work.	30,727 2,200 100 800		
Tanneries	54,721	52,502	800	800	Brewery Work.	49,209	1.4	1.5
LIQUOR AND BEVERAGE INDUSTRIES	73,475	71,068	49,665	49,078	Brewery Work.	210	67.6	69.1
Breweries	55,413	54,555	49,209	48,622	A.F. of L., local unions	246	88.8	89.1
Distilleries	7,912	6,980	210	210			2.6	3.0
Other liquor and beverage factories	10,150	9,533	246	246			2.4	2.6

LUMBER AND FURNITURE INDUSTRIES.....	597,174	577,992	63,934	63,534	.....	...	10.7	10.9
Box, furniture factories, saw and planing mills and other woodworking factories	567,132	549,941	60,228	59,828	Box Makers	10,000	10.6	10.9
					Saw Mill Work.	600		
					Saw Smiths	300		
					Upholsterers	2,800		
					Wood Carvers	1,170		
					Carpenters, Utd.	38,958		
					Shingle Weavers	1,800		
					Wood Work.	3,200		
					I.W.W. (Detroit)	200		
Piano and organ factories.....	30,042	28,051	3,706	3,706	I.W.W. (Chicago)	1,200	12.3	13.2
					I.W.W. (Chicago)	100		
					Piano Work.	3,606		
METAL INDUSTRIES (except Iron and Steel)	320,041	288,296	15,013	15,013	Molders	612	4.7	5.3
					Metal Polishers	5,435		
					West. Fed. of Miners	4,636		
					Diamond Work.	310		
					Jewelry Work.	400		
					Tin Plate Work.	800		
					Watch Case Engravers	200		
					Iron, Steel & Tin Work.	2,500		
					A.F. of L., local unions	120		
PAPER AND PULP INDUSTRIES.....	101,797	68,677	2,683	2,412	Ma. Printers & Color Mix.	500	2.6	3.5
					Paper Mill Work.	700		
					Papermakers	1,400		
					A.F. of L., local unions	83		
					Typographical Un.	45,462	34.3	39.7
					Steel Plate Printers	1,262		
					Steel Plate Transferers	100		
					Stencotypers	3,863		
					Printing Pressmen	20,620		
					Poster Artists	340		
					Photo Engravers	3,446		
					Bookbinders	6,956		
					Lithographers	1,780		
					Litho. Press Feeders	900		
					Lithographic Work.	350		
					Print Cutters	400		
PRINTING AND BOOKBINDING.....	249,456	200,584	85,479	79,790				

¹ Unless otherwise indicated the unions given in this column are national or international unions.

Name of Industry or Occupation	Number of Persons in Industry or Occupation		Number of Members of Trade Unions in Industry or Occupation		Distribution of Union Members among Different Organizations		Percentage Organized	
	Total	Male	Total	Male	Name of Organization 1	Member-ship	Total	Male
TEXTILE INDUSTRIES.	800,251	404,368	29,862	19,377	I.W.W. (Chicago)	4,300	3.7	4.8
					Textile Work.	13,083		
					Woolsorters	1,600		
					Machine Printers	374		
					Loom Fixers	940		
					Lace Operatives	800		
					Cloth Weavers	5,000		
					Spinners [Mass.	2,746		
					Brussels' Work., Auburn,	35		
					Sailmakers, Soc. of N.Y.	127		
					Warpers, Phila. [Mass.	134		
					Carpet Weav., Worcester,	350		
					I.W.W. (Detroit)	300		
					A.F. of L., local unions	123		

MISCELLANEOUS INDUSTRIES:	12,922	10,563	897	897	Broom Makers	600	6.9	8.5
Broom and brush factories.....					Brushmakers	200		
					Brushmakers of N.Y.	97		
Button factories.....	12,879	7,748	32	32	A.F. of L., local unions	32	0.2	0.4
Charcoal and coke works.....	23,294	23,259	500	500	Utd. Mine Work.	500	2.1	2.1
					A.F. of L., local unions	850		
Cigar and tobacco factories.....	170,904	93,702	46,742	40,453	Cigarmakers	41,652	27.3	43.2
					Tobacco Work.	3,940		
					I.W.W. (Detroit)	200		
					I.W.W. (Chicago)	100		
Electric light and power plants, electric supply factories, electricians and electrical engineers, telegraph and telephone linemen.....	252,883	239,743	36,092	36,092	Electrical Work. (afl.)	15,990	14.3	15.1
					Electrical Work.	20,102		
Gas works.....	22,783	22,723	605	605	A.F. of L., local unions	605	2.6	2.6
Oil refineries.....	14,653	14,513	.....	.....	.....	...	..	..
Rubber factories.....	45,864	34,059	50	50	A.F. of L., local unions	50	0.1	0.1

Straw factories.....	6,453	2,377	684	684	Straw Hatters	400	10.6	28.7
Turpentine distilleries.....	7,898	7,839	....	....	Cap Makers	284	..	..
Other miscellaneous and not specified Industries.....	323,534	239,128	....	....	Longshoremens	...	..	..
TRANSPORTATION.....	2,862,260	2,756,231	494,662	493,702	Seamen	19,600	17.3	17.9
Water transportation.....	204,680	203,826	59,098	59,098	Masters, Mates & Pilots	13,800	28.8	28.9
					Marine Engineers	6,000		
					Steam Engineers	9,900		
					Engineers	6,680		
					A.F. of L., local unions	3,108		
						30		
Construction and maintenance of streets, roads, sewers, and bridges.....	195,793	195,443	4,612	4,612	Pavers	1,500	2.3	2.3
					Paving Cutters	3,070		
					A.F. of L., local unions	42		
Electric and street railways.....	154,684	154,426	33,773	33,773	Street Railway Employ.	33,773	21.8	21.8
Teamsters.....	748,550	748,265	52,128	52,128	Teamsters	41,648	6.9	6.9
					Chicago Teamsters	10,000		
					Bakery Work.	420		
					A.F. of L., local unions	60		
Steam railroads.....	1,266,574	1,260,523	297,926	297,926	Locomotive Engineers	56,781	23.5	23.6
					Locomotive Firemen	64,155		
					Railway Conductors	43,856		
					Railroad Sta. Employ.	2,180		
					Railroad Trainmen	106,343		
					Railroad Station Agents	600		
					Railroad Freight Hand.	3,950		
					Railroad Signalmen	1,100		
					Maint. of Way Employ.	8,700		
					Switchmen	7,400		
					Tunnel Constructors	1,300		
					R.R. Bldg. Mechanics,	240		
					I.W.W. (Chicago) [Mass.	1,000		
					A.F. of L., local unions	321		
Express companies.....	27,738	27,689	....	....	Letter Carriers	...	..	..
Post.....	82,455	81,276	26,034	26,034		26,034	31.5	32.0

¹ Unless otherwise indicated the unions given in this column are national or international unions.

Name of Industry or Occupation	Number of Persons in Industry or Occupation		Number of Members of Trade Unions in Industry or Occupation		Distribution of Union Members among Different Organisations		Percentage Organised	
	Total	Male	Total	Male	Name of Organisation ¹	Members	Total	Male
Telegraph and telephone	178,211	81,212	21,091	20,131	Commercial Telegraphers	1,000	11.8	24.8
					Railroad Telegraphers	20,000		
Other and not specified transportation ..	3,575	3,571	....	....	A.F. of L., local unions	91		
HAND TRADES	713,659	123,063	4,346	4,346	Coopers	4,346	..	3.5
BUILDING TRADES	2,444,395	2,425,652	396,674	396,674	Stonemasons	567	0.6	16.4
					Bricklayers	65,311		
					Bridge Work.	9,998		
					Carpenters, Utd.	156,541		
					Carpenters, Am.	4,950		
					Building Laborers	6,444		
					Cement Work.	8,975		
					Compressed Air Work.	600		
					Composition Roofers	1,190		
					Elevator Constructors	2,067		
					Asbestos Work.	500		
					Hod Carriers	10,848		
					Painters	61,618		
					Plasterers	13,629		
					Plumbers	24,015		
					Slate and Tile Roofers	500		
					Steam Fitters	5,600		
					Tile Layers	1,702		
					Wood, Wire Lathers	5,391		
					Sheet Metal Work.	15,068		
					I.W.W. (Detroit)	400		
					I.W.W. (Chicago)	150		
					Mosaic & Terrazzo Work.	105		
					A.F. of L., local unions	505		
STATIONARY ENGINEERS	215,053	215,043	9,990	9,990	Steam Engineers	9,990	4.6	4.6
STATIONARY FIREMEN	84,685	84,685	8,100	8,100	Stationary Firemen	8,100	9.5	9.5
TRADE	3,411,677	2,912,279	17,676	15,576	.....	...	0.5	0.5
Banking, brokerage, insurance, real estate	337,356	328,561	....	....	.....	...	..	..
Retail and wholesale dealers	1,246,077	1,178,049	....	....	.....	...	..	..

Other persons in trade.....	1,803,984	1,382,498	17,676	15,576	Retail Clerks Meat Cutters	15,000 2,676	0.9	1.1
Grain elevators, stockyards, warehouses and cold storage plants.....	24,260 441,180	23,171 435,653	11,843 11,843	11,843	..... A.F. of L., local unions Government Employ.	843 11,000	2.6	2.7
PUBLIC SERVICE (not elsewhere classified) ..								
PROFESSIONAL SERVICE.....	1,628,970	895,619	77,976	71,976	.....	8,000	4.8	8.0
Actors, professional showman, etc.	68,220	53,344	9,100	7,100	White Rats Actors	1,100	13.3	13.3
Artists, sculptors, teachers of art.....	65,879	45,486	.....	.....	.....	.....	..	..
Clergymen, etc.	144,878	131,786	.....	.....	.....	.....	..	..
Legal professions.....	122,149	120,806	.....	.....	.....	.....	..	..
Literary professions.....	53,064	36,941	.....	.....	.....	.....	..	..
Medical professions.....	293,990	201,037	.....	.....	.....	.....	..	..
Musicians and teachers of music.....	139,310	54,832	59,640	55,640	Musicians Musical & Theatrical Un.	57,740 1,900	42.8	..
Scientific professions.....	108,596	106,356	.....	.....	.....	.....	..	..
Teachers, professors, etc.....	616,144	134,515	20	20	A.F. of L., local unions	20	0.0	0.0
Other professional pursuits and occupa- tions connected with professional service	16,740	10,516	9,216	9,216	Theatrical Stage Employ.	9,116	55.1	87.6
DOMESTIC AND PERSONAL SERVICE.....	3,569,757	1,118,743	62,719	60,747	Musical & Theatrical Un. Barbers Hotel Employ. I.W.W. (Chicago) A.F. of L., local unions Laundry Work.	100 26,310 35,864 150 395 2,880	1.7	5.4
Laundries.....	121,736	46,695	2,860	1,972	Seamen (fishermen) A.F. of L., local unions	2,200 62	2.4	4.2
AGRICULTURE, FORESTRY, AND ANIMAL HUS- BANDRY.....	12,640,734	10,833,248	2,262	2,262	.....	.....	0.0	0.0
PROPRIETARY, OFFICIAL, AND SUPERVISORY GROUPS.....	980,012	935,116	.....	.....	Utd. Nat. Ass. P.O. Clerks Railway Clerks	21,000 6,270	1.7	2.5
CLERICAL GROUPS.....	1,696,061	1,138,564	28,853	28,221	Nat. Fed. of P.O. Clerks A.F. of L., local unions	1,400 183	..	..
TOTAL.....	38,134,712	30,059,212	2,116,317	2,042,514	.....	...	5.5	6.8

¹ Unless otherwise indicated the unions given in this column are national or international unions.

NOTES TO TABLE II

Unless otherwise indicated the figures in this table, giving the number of persons employed in an industry, are obtained by adding the number of persons employed in the fourth group in the census of "occupations peculiar to the industry." As explained in the discussion of this table, "teamsters" and "firemen" have been taken from this group. The following notes enumerate those occupations in the first three groups over which the union in the industry claims jurisdiction and which have, consequently, been added to the occupations of the fourth group.

Coal mines. — Blacksmiths, boilermakers, carpenters, stationary engineers, machinists, millwrights, drivers.

Copper, gold and silver, iron, lead and zinc, other specified and not specified mines. — Firemen, drivers.

Quarries. — Blacksmiths, carpenters, stationary engineers, drivers.

Brick, tile and terra cotta factories. — Teamsters, firemen.

Marble and stone yards. — Foremen and overseers, blacksmiths, masons and monument setters, tool sharpeners.

Potteries. — Firemen.

Clothing, shirt, collar and cuff factories. — This item was obtained by combining the three classifications: (1) clothing factories (suits, coats, cloaks, and overalls); (2) clothing factories (except suits, coats, cloaks, and overalls); and (3) shirt, collar, and cuff factories. To the sum of their fourth groups were added "shipping clerks" in (1) and (2).

Slaughter and packing houses. — Weighers.

Iron and steel industries. — This includes all workers in the fourth group of the various divisions of the iron and steel industry as found in Table VI of the Census of Occupations. To these have been added the total number of boilermakers, machinists, and millwrights and blacksmiths in the United States in 1910 (Census of Occupations, 1910, Table I, pp. 91, 92) less those blacksmiths, boilermakers, and machinists who have been added to the fourth group in other industries. There are included, also, the following occupations in the first three groups of various sections of the iron and steel industry: Automobile factories — shipping clerks, designers, draftsmen, blacksmiths, cabinetmakers, carpenters, electricians and electrical engineers, mechanical engineers, stationary engineers, locksmiths, machinists, mechanics, millwrights, painters, tinner, toolmakers, wheelwrights, firemen. Carriage and wagon factories — shipping clerks, designers and draftsmen, black-

smiths, cabinetmakers, carpenters, electricians and electrical engineers, stationary engineers, machinists, mechanics, millwrights, painters, tanners, toolmakers, wheelwrights, wood carvers, firemen. Car and railroad shops — cabinetmakers, carpenters, electricians and electrical engineers, painters, plumbers, tanners, wheelwrights, wood carvers. Ship and boat building — foremen and overseers, boilermakers, carpenters and shipwrights, mechanics.

Harness and saddle factories. — Machinists, mechanics.

Leather belt, leather case, pocketbook and trunk factories. — (1) Leather belt, leather case and pocketbook factories — engravers, mechanics, painters. (2) Trunk factories — mechanics, painters.

Breweries. — Stationary engineers, firemen, teamsters, coopers.

Distilleries. — Stationary engineers, firemen, coopers, teamsters.

Box, furniture factories, saw and planing mills, and other wood-working factories. — Includes "cabinetmakers" in each of the above divisions of the lumber industry.

Piano and organ factories. — Foremen and overseers, cabinetmakers.

Metal industries. — This represents the sum of the fourth groups in the following industries — brass mills, clock and watch factories, copper factories, gold and silver factories, jewelry factories, lead and zinc factories, tinplate, tinware and enamel ware factories, other metal factories, and not specified metal factories.

Paper and pulp industries. — This represents the sum of the fourth groups in the following industries — box factories (paper), blank book, envelope, tag, paper bag factories, and paper and pulp mills. "Engravers" in blank book factories have also been added.

Printing and bookbinding. — Proof readers, engravers, machinists.

Textile industries. — This represents the sum of the fourth groups of all of the subdivisions of the textile industry and the "machinists and loomfixers" in lace and embroidery mills and in linen mills.

Charcoal and coke works. — Blacksmiths, boilermakers, carpenters, firemen, teamsters.

Cigar and tobacco factories. — Shipping clerks, weighers.

Electric light and power plants. — This includes the sum of the fourth groups in electric light and power plants and electric supply factories, the total number of electricians and electrical engineers in the United States in 1910 (Census, Table I, p. 91), proper deductions being made for those included in other industries, and telegraph and telephone line-men (Census, Table VI, p. 418).

Water transportation. — Carpenters, firemen, electricians, engineers (ship or boat).

Teamsters. — Includes carriage and hack drivers, chauffeurs, draymen, teamsters and expressmen, hostlers and stable hands (Census, Table I, p. 92), deliverymen in "Trade" (Table I, p. 93) and teamsters in "Forestry" (Census, Table VI, p. 302). From this table have been

deducted the teamsters included, through the jurisdictional claims of various unions, in other industries.

Steam railroads. — Foremen and overseers, blacksmiths, carpenters, masons, painters, plumbers, tinnerns, train dispatchers, freight agents, ticket and station agents, miscellaneous and not specified agents, baggagemen, firemen.

Telegraph and telephone. — Telegraph and telephone linemen have been subtracted from the fourth group.

Hand trades. — Includes total number of coopers in the country, less those placed in other industries (see Census, Table XV, p. 55 for the number of coopers), dressmakers (not in factory), dressmakers' apprentices, jewelers (not dealers), milliners and millinery dealers, milliners' apprentices, piano and organ tuners (not in factory), seamstresses (not in factory), shoemakers (not in factory), weavers (blankets, not in factory), weavers (carpets, not in factory). See Census, Table VI, p. 312.

Building trades. — Includes the following occupations: carpenters and joiners, masons, painters, glaziers, and varnishers, paper hangers, plasterers, plumbers and gas and steam fitters, roofers and slaters, structural iron workers, tinsmiths and coppersmiths, laborers (building and not specified). The number of carpenters and joiners, masons, painters, glaziers, varnishers, paperhangers, plasterers, plumbers, gas and steam fitters, roofers and slaters were taken from Table XV of the Census of Occupations (p. 55), showing the total number of persons employed in these occupations throughout the whole of industry in 1910; the number of tinsmiths and coppersmiths from Table I (p. 92), and the number of structural iron workers and laborers (building and not specified) from Table VI (p. 312). In every case, however, the necessary deductions were made for the number in the occupation which had already been placed in another industry.

Stationary engineers. — Includes the total number of engineers in the country (Census, Table I, p. 91), less those included in other industries. (There is an organization of stationary engineers called the National Association of Stationary Engineers, which had in 1910 a membership of 19,000; this organization, however, does not consider itself to be a trade union and holds it contrary to its policy to interfere in any way between its members and their employers in regard to wages and to be used for the "furtherance of strikes." The association was, therefore, not included in any of the tables in this study.)

Stationary firemen. — Includes "firemen (except locomotive and fire department)"; see Census, Table I, p. 91. Allowance is made for stationary firemen already included in different industries.

Banking, brokerage, insurance, real estate. — The clerical workers have been deducted from the total number of persons employed in these divisions of trade.

Other persons in trade. — Includes “clerks in stores”; proprietary and clerical groups, firemen, deliverymen, stationary engineers, and machinists are deducted.

Public service. — Clerical occupations, stationary firemen, teamsters, machinists, stationary engineers, and machinists have been subtracted from the total number of persons employed in public service (not elsewhere classified). See Census, Table VI, p. 426.

Other professional pursuits. — Includes “other professional pursuits,” physicians’ and surgeons’ attendants, ticket sellers (theater), stage hands and circus helpers, theater ushers.

Domestic and personal service. — Persons employed in “occupations connected with domestic and personal service” and “firemen” have been subtracted from the total number of persons employed in domestic and personal service.

Laundries. — Includes mechanics, drivers, deliverymen.

Agriculture, forestry and animal husbandry. — Clerical groups, blacksmiths, stationary engineers, machinists, and teamsters have been subtracted from the total number of persons employed in agriculture, forestry and animal husbandry.

Proprietary, official, and supervisory groups. — This represents the sum total of all similar groups in the industries given in Table VI of the Census of Occupations, necessary deductions being made for those members of the proprietary groups who were in several cases put into the industry in question.

Clerical group. — This represents the sum total of all similar groups in the industries given in Table VI of the Census of Occupations, correction being made as in the case of the proprietary groups.

TABLE III

EXTENT OF ORGANIZATION AMONG PERSONS TEN YEARS OF AGE AND OVER ENGAGED IN CERTAIN
SELECTED OCCUPATIONS: 1910

Occupation	Number of Persons in Occupation		Number of Members of Trade Unions in Occupation		Distribution of Union Members among Different Organizations ¹		Percentage Organized	
	Total	Male	Total	Male	Name of Organization	Member-ship	Total	Male
Actors and showmen.....	48,393	35,293	9,100	7,100	Actors	1,100	18.8	20.1
Bakers.....	117,141	105,898	18,830	18,830	White Rats	8,000	16.1	17.7
Barbers.....	172,946	172,946	26,310	26,310	Bakery Work.	18,830	15.2	15.2
Bartenders.....	101,234	100,984	25,601	25,601	Barbers	26,310	25.3	25.4
Blacksmiths, forgemen, and hammermen....	240,519	240,488	16,150	16,150	Hotel Employ.	25,601	6.7	6.7
Bookbinders.....	39,270	18,179	6,956	3,305	Blacksmiths	9,000	17.7	18.2
Brakemen.....	92,111	92,111	50,350	50,350	Horsehoers	7,150	54.7	54.7
Brick and stone masons.....	169,402	169,387	66,179	66,179	Bookbinders	6,956	39.1	39.1
Brick, tile and terra cotta workers.....	98,547	97,164	3,800	3,800	Railroad Trainmen	49,450	3.8	3.9
Carders, combers and lappers.....	23,956	18,080	1,350	909	Locomotive Firemen	900	5.6	5.0
Carpenters and joiners.....	817,120	817,082	169,820	169,820	Bricklayers	63,678	20.8	20.8
					Tile Layers	1,702		
					Stonecutters	567		
					Mosaic & Terrazzo Work.	105		
					A.F. of L., local unions	127		
					Brick Work.	3,800		
					Carders	1,325		
					Card Machine Operators	25		
					Carpenters, Ltd.	156,541		
					Wood, Wire Lathers	5,391		
					Am. Soc. of Carpenters	4,980		
					Railway Carmen	2,052		
					Shipwrights	886		

Compositors, linotypers, and typesetters . . .	127,589	113,538	44,522	43,956	Typographical Un.	44,522	34.9	38.8
Cooks	450,440	117,004	1,939	1,939	Hotel Employ.	1,939	0.4	1.6
Coopers	25,299	25,292	4,346	4,346	Coopers	4,346	17.2	17.2
Electrotypers and stereotypers	4,368	4,268	3,863	3,863	Stereotypers	3,863	88.4	90.5
Glove workers	12,343	4,266	800	435	Glove Work.	800	6.5	10.2
Locomotive engineers	96,229	96,229	71,401	71,401	Locomotive Engineers	56,781	74.2	74.2
					Locomotive Firemen	14,520		
Locomotive firemen	76,381	76,381	27,938	27,938	Railroad Trainmen	100	36.6	36.6
					Locomotive Firemen	27,763		
Loomfixers	13,254	13,254	3,020	3,020	Railroad Trainmen	175	22.8	22.8
					Loomfixers	940		
Machinists and millwrights	478,786	478,713	53,160	53,160	Textile Work.	2,080	11.1	11.1
					Machinists	51,900		
Mail carriers	80,678	79,667	26,034	26,034	Metal Work.	1,260	32.3	32.5
Metal polishers	55,983	52,910	8,895	8,895	Letter Carriers	26,034	15.9	16.8
Molders, founders, casters (metal), and core-makers	139,215	137,262	47,050	47,050	Metal Polishers	8,895	33.9	34.3
Musicians and teachers of music	139,310	54,832	59,640	55,640	Molders	47,050	..	..
					Musicians	57,740		
Painters, glaziers, varnishers, enamelers, and paperhangers	362,332	359,594	63,800	63,800	Musical & Theatrical Un.	1,900	17.6	17.7
					Painters	61,618		
Pattern makers	14,869	14,775	5,655	5,655	Railway Carmen	2,052	38.0	38.0
					A.F. of L., local unions	130		
Plasterers	47,682	47,676	15,262	15,262	Pattern Makers	5,450	32.0	32.0
					Railway Carmen	205		
Plumbers and gas and steam fitters	148,304	148,304	30,641	30,641	Plasterers	13,629	20.7	20.7
					Bricklayers	1,633		
					Plumbers	24,015		
					Steam Fitters	5,600		
Potters	15,591	13,536	5,580	5,582	Railway Carmen	1,026	36.4	41.2
Printers (textile)	2,250	2,057	374	374	Potters	5,680	16.6	18.2
Railway conductors	65,604	65,604	57,056	57,056	Machine Printers	374	86.9	86.9
					Railway Conductors	43,856		
					Railroad Trainmen	13,000		
					Locomotive firemen	200		

¹ Unless otherwise indicated the unions given in this column are national or international unions.

Occupation	Number of Persons in Occupation		Number of Members of Trade Unions in Occupation		Distribution of Union Members among Different Organizations ¹		Percentage Organized	
	Total	Male	Total	Male	Name of Organization	Member-ship	Total	Male
Retail clerks.....	1,264,421	902,340	15,000	12,900	Retail Clerks	15,000	1.2	1.4
Spinners.....	74,059	27,785	5,126	5,126	Spinners	2,746	6.9	18.5
Textile Work.					Textile Work.	2,380		
Granite Cutters	35,731	35,726	24,694	24,694	Granite Cutters	13,235	69.1	69.1
Stonecutters.....					Stonecutters	7,830		
					Marble Workers	2,458		
					Nat. Soc. of Stonecutters	800		
					Sculptors & Carvers, N. Y.	171		
Stonecutters' Soc. of N. Y.					Stonecutters' Soc. of N. Y.	200		
Switchmen.....	73,419	73,367	14,275	14,275	Switchmen	7,400	19.4	19.4
					Railroad Signalmen	1,100		
					Railroad Trainmen	5,400		
					Locomotive Firemen	375		
Teamsters.....	782,637	782,338	68,726	68,726	Teamsters	41,648	8.8	8.8
					Brewery Work.	16,448		
					Teamsters of Chicago	10,000		
					Bakery Work.	420		
					Laundry Work.	150		
					A. F. of L., local unions	60		
Sheet Metal Work.					Sheet Metal Work.	16,530	26.4	26.7
Upholsterers	62,621	61,774	16,530	16,530	Upholsterers	2,800	12.3	13.5
Railway Carmen	24,347	22,130	3,005	3,005	Railway Carmen	205		
Hotel Employ.	188,293	102,495	7,592	5,640	Hotel Employ.	7,592	4.0	5.5
Wood carvers.....	5,315	5,257	1,170	1,170	Wood Carvers	1,170	22.0	22.2
Woolsorters and graders.....	3,576	3,102	1,600	1,600	Woolsorters	1,600	44.7	51.6

¹ Unless otherwise indicated the unions given in this column are national or international unions.

NOTES TO TABLE III

The term "occupation" is used here in a somewhat wider sense than ordinarily to include certain subdivisions of a trade, each of which in the census terminology is regarded as a distinct occupation. Thus, the occupation of "bookbinders," given in Table III, is in reality composed of the thirteen subdivisions of the trade of bookbinding enumerated in the Census of Occupations. The figures indicating the number of persons employed in an occupation or trade were taken, unless otherwise specified, from Table I (United States Census of Occupations, 1910, p. 91).

Actors and showmen. — See Census, Table VI, p. 428. The Actors' National Protective Association claimed jurisdiction over "actors and actresses" and the "White Rats" over "actor, performer and entertainer in the amusement world." As the "Actors'" union went out of existence in 1911 and as the "White Rats" did not reply to several inquiries for a more detailed statement of their jurisdictional claims than that given in their constitution, the census classifications of "actors" and "showmen" were taken as affording the best basis for calculating the extent of organization among that class of persons who would be generally designated as actors.

Bakers. — This represents the sum of the number of persons employed in the following occupations in bakeries (Census, Table VI, p. 328): apprentices, bakers, deliverymen and teamsters, helpers, labelers, laborers, mixers, packers, wrappers, other specified occupations, not specified occupations.

Barbers. — The Census (Table VI, p. 430) combines in one group barbers and hairdressers. On the assumption that practically all hairdressers are female and that practically all barbers are male, the data in this table representing the total number of barbers were obtained by deducting from the total number of persons employed as barbers and hairdressers the females in the group. The percentage of organization here given probably does not indicate the actual strength of the Barbers' Union, as the census includes in this group both employing and employed barbers, whereas the union excludes from membership employers who employ one or more journeymen barbers.

Blacksmiths. — The Census classifies horseshoers under blacksmiths. This classification also includes employer blacksmiths. The International Brotherhood of Blacksmiths and Helpers, however, admits into the union blacksmiths "conducting a blacksmith shop and employing not to exceed three blacksmiths."

Bookbinders. — Includes the following occupations in "printing and bookbinding" (Census, Table VI, p. 378): bookbinders, embossers, gilders, stampers, finishers, folders, numberers, rulers, cutters, gatherers, gold layers, pasters, sewers and sewing machine operators; and binders and rulers in "blank book" factories (Census, p. 376).

Brakemen. — See Census, Table VI, p. 414. Percentage of organization here calculated is probably too high because "the number of railroad brakemen is entirely too small as compared with the number of locomotive engineers and firemen. This probably is due to the return of brakemen under certain general designations." (Census, p. 22.)

Brick, tile and terra cotta workers. — Represents the sum of all of the occupations in the fourth group of "occupations peculiar to the industry," including "firemen" and "teamsters." (Census, Table VI, p. 318.)

Carders. — The Amalgamated Carders' Union and the Card Machine Operators' Union are part of the United Textile Workers and their membership is included in that of the latter organization. These unions are, therefore, not to be found in Table I.

Carpenters and joiners. — From an examination of the classification of carpenters and joiners followed by the Census of Occupations (Classified Index to Occupations, Bureau of the Census, 1910, p. 288), it seems that lathers are included in the general group of carpenters. For this reason the membership of the Wood, Wire and Metal Lathers' Union has been here added to the carpenters who are members of other unions.

Compositors. — The membership of the International Typographical Union includes "mailers" who are classified in the Census in another group. The mailers in the union in 1910 have, therefore, been deducted from the American membership of the union.

Cooks. — The percentage of organization is here too low because of the inclusion in the total number of cooks of a large number who are employed in private homes and whom the union makes no effort to organize, since it restricts its activities to the organization of hotel and restaurant employees.

Coopers. — The percentage of organization is too low as there are a number of coopers in the Brewery Workers' Union. It was impossible, however, to obtain from the Brewery Workers' Union the number of coopers in that organization.

Glove workers. — Includes apprentices, cutters, layers-off, pressers, sewers and sewing machine operators, and turners. (Census, Table VI, p. 326.)

Locomotive engineers and firemen. — Extent of organization is probably underestimated in both cases, because the total number of locomotive engineers and locomotive firemen is too great. "The large number of locomotive engineers and of locomotive firemen reported for 1910 indicates that, even after such corrections as could be made, some

stationary engineers are included with the locomotive engineers and some other firemen are included with the locomotive firemen." (Census, p. 22.) President W. S. Carter of the Brotherhood of Locomotive Firemen and Enginemen writes, in response to an inquiry, that there is an error of considerable magnitude in the census figures for locomotive engineers and locomotive firemen in that there are probably more firemen than engineers employed on railroads. This is due to the fact that, because of the greater physical exhaustion of the work of a fireman, "engineers can make 'more mileage' than firemen"; and, consequently, a larger proportion of firemen is required. This opinion is supported by the reports of the Interstate Commerce Commission which, not including returns for switching and terminal companies, reports 64,691 enginemen and 68,321 firemen employed on railroads in the United States in 1910. (Twenty-Fourth Annual Report on the Statistics of Railways in the United States, p. 27.) In interpreting the percentages of organization in the various occupations in the steam transportation industry, it must be remembered that there is a considerable duplication in membership which raises somewhat the percentage of organization. Thus, a "number of engineers who are members of the Brotherhood of Locomotive Firemen and Enginemen and join the Brotherhood of Locomotive Engineers retain their membership in both organizations." Similarly many conductors are at the same time members of the Order of Railway Conductors and of the Brotherhood of Railroad Trainmen. It is, however, impossible to collect data upon which to base the proper corrections.

Metal Polishers. — Includes filers, grinders, buffers and polishers (Census, Table I, p. 91), and platers, the total of which was obtained by adding up the platers in the various iron and steel and metal industries. The union membership was obtained by subtracting from the total membership the number of brass and silver workers not employed in any of the above occupations.

Molders. — The number of coremakers was obtained by adding up the coremakers in each industry. It was necessary to include coremakers with molders because they are admitted into the International Molders' Union and it was impossible to break up the membership of that union into molders and coremakers.

Musicians. — Male musicians show an organization of over 100 per cent. This is due to the fact that many persons, to whom their work as musicians is only a subsidiary occupation and who report themselves to the census enumerators as employed in other occupations, are members of the musicians' unions. Thus many barbers and grocers, who are enumerated in the Census in those occupations, play in orchestras at night and are included in the membership figures of the Musicians' Union. The composition of the Musicians' Union, therefore, accounts for the apparently anomalous data in this table which indicate a larger

number of persons in the Musicians' Union than there are musicians in this country.

Pattern makers. — This represents the total number of pattern makers in iron and steel industries, metal industries (other than iron and steel), electric supply factories, not specified metal industries, and steam railroads.

Potters. — Includes apprentices, dippers, dishmakers, finishers, firemen, jiggersmen and jollymen, kilnmen, packers, potters not specified, pressers and molders, saggermakers, turners, other and not specified occupations. (Census, Table VI, p. 322.)

Printers (textile). — Obtained by adding up the printers in the various textile industries.

Retail clerks. — Represents "clerks in stores" and "salesmen and saleswomen in stores."

Switchmen. — Census, Table VI, p. 416. In the "Classified Index to Occupations" (Bureau of the Census, 1910, p. 326), which served as a basis for the classifications used in the Census of Occupations of 1910, switchmen, gatemen, flagmen, and signalmen are grouped together. It is assumed, therefore, that in the Census the same grouping is followed and the signalmen are classified with switchmen, gatemen, and flagmen.

Teamsters. — Includes carriage and hack drivers, chauffeurs, draymen, teamsters and expressmen, hostlers and stable hands, and deliverymen in trade. The percentage of organization among teamsters is probably higher than the figures indicate, first because the Teamsters' Union excludes employing teamsters and second, because there are many organized teamsters in other unions, such as the United Mine Workers, whose number it was not possible to ascertain.

Tinsmiths. — The number of solderers was obtained by adding the number of each industry. It was necessary to adopt this grouping because the Sheet Metal Workers' Union was unable to classify its membership into tinsmiths, coppersmiths, and solderers.

Upholsterers. — The number of mattress makers is found in Table VI, p. 406. This total for mattress makers does not, however, include all operatives, "since such occupations as apprentice and machine hand, are reported under their own respective titles."

Woodcarvers. — Total was obtained by adding the number of wood carvers in each industry.

Woolsorters and graders. — Represents the sum of persons employed in these occupations in the various textile industries.